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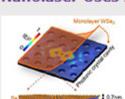
## Thursday, April 2, 2015



This week on Light Matters:

Thermal Vision ... and a Way to Foil It!

#### Nanolaser Uses Atomically Thin Gain Medium



With potential for on-chip optical communications applications, a tungsten-based nanoscale laser operates reliably on a tiny amount of electricity.

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Facebook, Infinera to Create 8 Tb/s European Optical Network Facebook Inc. is preparing to deploy an intelligent transport network developed by Infinera

Corp. to create a 3998-km optical network route across Europe with a capacity of up to 8 Tb/s. Read Article >> Share

Canadian Military Helicopters to Carry Northrop Grumman IR

**Countermeasures Systems** The latest generation of the company's directional IR countermeasures (DIRCM) system protects the Chinook and its crew by automatically detecting a missile launch, determining if it's a threat, and activating a high-intensity laser to track and shoot down the missile. Read Article >>

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Flame Spectrometer Ocean Optics The Flame spectrometer is built using industry-leading manufacturing techniques that help deliver high thermal stability

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#### Snapshot Micropolarizer Camera 4D Technology Corp.

The PolarCam™ snapshot micropolarizer camera simultaneously captures images at 4 polarization angles from each video frame, enabling a range of image ennancement techniques and polarimetric measurements. More info >>



Violet 405nm Laser

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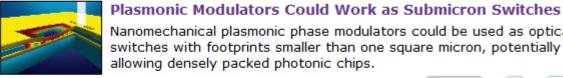
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#### Custom Optical Mirrors Sydor Optics, Inc.

Sydor Optics has extensive experience in pitch polishing of custom optical mirrors. Our precision manufacturing capabilities include diameters up to 600mm, surface flatness to 1/20 wave (size dependent) and various metallic coating options. More info >>

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Nanomechanical plasmonic phase modulators could be used as optical switches with footprints smaller than one square micron, potentially allowing densely packed photonic chips.

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UK Machine Vision Group Selects New Leadership The U.K. Industrial Vision Association (UKIVA) has chosen a new leadership team and

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Meadowlark Optics Acquires Spatial Light Modulator Product Line Meadowlark Optics Inc. has acquired the spatial light modulator (SLM) product line from Cambridge Research & Instrumentation Inc. Share

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## WEBINAR

#### Novel SWIR Detectors and Imagers Approaching the Thermodynamic **Detection Limit** Thursday, April 9 1pm EDT

FREE WEBINAR New research shows that devices based on



electron injection might be able to approach the thermodynamic limit of sensitivity in shortwaveinfrared (SWIR) detectors at relatively high temperatures. Because the energy of photons is significantly larger than the thermal energy in this region, non-cryogenic single-photon detectors with high detection efficiency and very low false detection rate seem feasible for the first time.

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## RMI Launches Custom Optomechanical Assembly Service

Services include design using Zemax and SolidWorks software, Class 100 clean room manufacturing and coating, as well as advanced testing and metrology. Read Article >> Share

Photronics Promotes Kirlin to CEO Dr. Peter Kirlin, currently the company's president, will succeed CEO Constantine "Deno"

Macricostas, who will continue as executive chairman of the Photronics board of directors. Share Read Article >>

New Managing Director Named for Trumpf Canada Stefan Fickenscher will be responsible for the day-to-day operations at Trumpf Canada,

including sales, service and spare parts at the subsidiary's new location in Mississauga, Ontario. Read Article >> Share







# Fabricating and Testing Freeform Optics: Current

WHITE PAPER

Capabilities, Lessons Learned and Future Opportunities Optimax Systems

Freeform optical shapes or optical surfaces that are designed with

non-symmetric features are gaining popularity with lens designers and optical system integrators. A common question about freeform optics is, "If I design it, can you really make it?" This paper will overview a freeform optical fabrication process that includes generation, high speed VIBE polishing, sub-aperture figure correction, surface smoothing and testing of freeform surfaces. This paper will briefly highlight the progress made to each of the processes as well as the challenges associated with each of them.

DOWNLOAD WHITE PAPER >>

## SPIE DSS 2015 - April 20-24, 2015 · Baltimore Convention Center

Industry Events

The weeklong event features SPIE's Sensing Technology + Applications SPIE.DSS and Defense + Security symposia.

SPIE Defense + Security focuses on IR systems; lidar and radar; laser technology; image processing; data analysis; intelligence, surveillance and reconnaissance systems (ISR); display technologies; unmanned systems and robots; CBRNE; cyber sensing and security; biometric technology; law enforcement; energy harvesting; and more.

SPIE Sensing Technology + Applications focuses on commercial sensing and imaging topics and further development of affordable technology options with civilian applications. More info >>

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